Elliot Epstein

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EDUCATION

Stanford University — **Stanford, California**
Ph.D. in Computational and Mathematical Engineering — Jul. 2022 – Jun. 2026
Master of Science in Computational and Mathematical Engineering (GPA: 4.10/4.30) — Sep. 2021 – Jun. 2026

- Coursework: Numerical Linear Algebra, Reinforcement Learning, Natural Language Processing, Optimization, Discrete Mathematics and Algorithms, Numerical and Theoretical PDEs, Stochastic Methods, Computer Systems, Theory of Statistics I-II, Probabilistic Graphical Models, Launchpad, Stanford Ignite

University of Oxford — **Oxford, United Kingdom**
Master of Science in Mathematical and Computational Finance — Sep. 2020 – Jul. 2021

KTH Royal Institute of Technology — **Stockholm, Sweden**
Bachelor of Science in Engineering Physics (GPA: 4.94/5.00) — Aug. 2017 – Aug. 2020

- Exchange Student at the Department of Mathematics at ETH Zurich from Sep. 2019 to Aug. 2020
- Thesis: "A Review of the Article *Gradient Descent Provably Optimizes Over-parametrized Neural Networks*"

WORK EXPERIENCE

Jump Trading — **Chicago, Illinois**
Quantitative Research Intern — Jun. 2025 – Aug. 2025

Google — **Sunnyvale, California & Seattle, Washington**
PhD Software Engineering Intern, Gemini — Jun. 2024 – Sep. 2024

- Outcome: Research paper "MMMT-IF: A Challenging Multimodal Multi-Turn Instruction Following Benchmark"

Student Researcher — Oct. 2023 – Jan. 2024
Software Engineering Intern — Jun. 2023 – Sep. 2023

- Worked on an LLM-based chatbot for enterprise solutions

Stanford University — **Stanford, California**
Research Assistant — Sep. 2022 – Apr. 2023

- Long sequence modeling with Prof. Christopher Re in the Stanford AI Lab

EDF Trading — **London, United Kingdom**
Intern, Quant and Data Group — Apr. 2021 – Aug. 2021

- Developed a model in Python to predict the direction of the next trade of day-ahead gas futures with 70 percent accuracy using LOB data and an ensemble of LSTM networks

PUBLICATIONS

Elliot L. Epstein, Rose Wang, Jaewon Choi, Markus Pelger.
Attention Factors for Statistical Arbitrage. Working paper

Elliot L. Epstein, Apaar Sadhwani, Kay Giesecke.
A Set-Sequence Model for Time Series. In FinAI@ICLR, 2025

Elliot L. Epstein, Rajat Vadiraj Dwaraknath, Thanawat Sornwanee, John Winnicki, Jerry Weihong Liu.
Score-Debiased Kernel Density Estimation. In FPI@ICLR, 2025

Elliot L. Epstein, Kaisheng Yao, Jing Li, Xinyi Bai, Hamid Palangi.
MMMT-IF: A Challenging Multimodal Multi-Turn Instruction Following Benchmark. In SFLLM@NeurIPS, 2024

Elliot L. Epstein∗, Daniel Y. Fu∗, Eric Nguyen, Armin W. Thomas, Michael Zhang, Tri Dao, Atri Rudra, Christopher Re.
Simple Hardware-Efficient Long Convolutions for Sequence Modeling. In ICML, 2023. In ME-FoMo@ICLR, 2023

Filip Christiansen, **Elliot L. Epstein**, Erica Smedberg, Måns Åkerlund, Kevin Smith, Elisabeth Epstein. Ultrasound image analysis using deep neural networks for discriminating between benign and malignant ovarian tumors: comparison with expert subjective assessment. In *Ultrasound Obstet Gynecol,* 2021

SERVICE

Stanford University — **Stanford, California**
Course Assistant — 2022 – 2024

- *Machine Learning (CS 229), Applied Data Science (CME 218), Partial Differential Equations (MATH 220), Financial Risk Analytics (MS&E 246),* Investment Science *(MS&E 245A, MS&E 245B)*

Admissions Committee: Stanford MS in Computational and Mathematical Engineering — 2024 – 2025

NeurIPS, ICML, ICLR
Reviewer — 2024 – 2025

SKILLS

Proficient in**:** Python (NumPy, PyTorch, Jax, TensorFlow, LangChain, pandas, scikit-learn, Flask), Linux, LaTeX
Experienced in: C++, C, MATLAB, Git, Bloomberg Terminal, GCP, Assembly, AWS, Docker, R